

Section 4-6: Isosceles and Equilateral Triangles

By the end of this lesson, you should be able to answer:

- How do you use properties of isosceles triangles?
- How do you use properties of equilateral triangles?

Define the following:

1. Legs of an Isosceles Triangle

2. Vertex Angle

3. Base Angles

Theorem 4.10: Isosceles Triangle Theorem

Theorem 4.11: Converse of the Isosceles Triangle Theorem

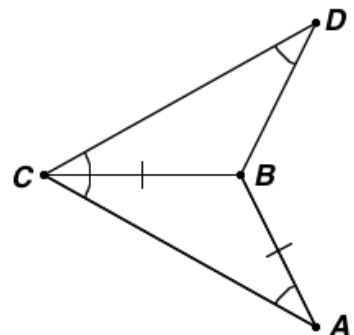
Corollary 4.3: Equilateral Triangles

Corollary 4.4: Equilateral Triangles

Example 1: Use the figure at the right.

a. Name two unmarked congruent angles.

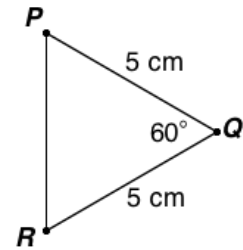
b. Name two unmarked congruent segments.



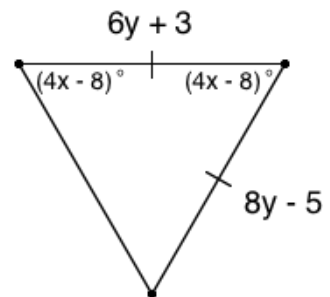
Example 2: Find each measure.

a. $m\angle R$

b. PR



Example 3: Find the value of each variable.



Problem Set:

"We have, I fear, confused power with greatness." - Stewart L. Udall